

What is claimed is:

1. A speech recognition system comprising:
  - correspondence information, said correspondence information storing a correspondence between recognized words and a plurality of speech element arrays expressing pronunciation of said recognized words;
  - said speech recognition system recognizing a recognizable word from a received user spoken utterance by comparing a speech element array generated from said user spoken utterance with said plurality of speech element arrays in said correspondence information;
  - wherein, in a dialog of a single person occurring within a certain period of time, said generated speech element array corresponds to one of said plurality of speech element arrays, a pronunciation prediction probability corresponding to said one of said plurality of speech element arrays is lowered, said pronunciation prediction probability being different from said generated speech element array.
2. The speech recognition system according to claim 1, wherein:
  - different speech element arrays expressing pronunciation for a single recognized word include a number corresponding to a previously measured pronunciation prediction probability and a recognized word corresponding to said previously measured pronunciation prediction probability.
3. The speech recognition system of claim 1, wherein said certain period of time is a period of time for a continued dialog.
4. The speech recognition system of claim 1, wherein said certain period of time is a period of time including a plurality of dialogs in one day.

1 5. The speech recognition system of claim 1, further comprising:

2 means for detecting erroneously recognized words by referring a speaker to at  
3 least a part of said recognized words; and

4 means for replacing one of said erroneously recognized words with a  
5 recognizable word which can be recognized as said one of said erroneously recognized  
6 words.

1 6. The speech recognition system of claim 2, further comprising:

2 means for detecting erroneously recognized words by referring a speaker to at  
3 least a part of said recognized words; and

4 means for replacing one of said erroneously recognized words with a  
5 recognizable word which can be recognized as said one of said erroneously recognized  
6 words.

1 7. The speech recognition system of claim 1, further comprising:

2 means for replacing a recognized word which corresponds to a speech element  
3 comprising one syllable with a long vowel with a previously recognized word comprising  
4 one syllable with a short vowel corresponding to said long vowel, when a number of  
5 recognized words does not conform to a previously registered number in said speech  
6 recognition system.

1 8. The speech recognition system of claim 2, further comprising:

2 means for replacing a recognized word which corresponds to a speech element  
3 comprising one syllable with a long vowel with a previously recognized word comprising  
4 one syllable with a short vowel corresponding to said long vowel, when a number of  
5 recognized words does not conform to a previously registered number in said speech  
6 recognition system.

1 9. The speech recognition system of claim 5, further comprising:

2 means for replacing a recognized word which corresponds to a speech element  
3 comprising one syllable with a long vowel with a previously recognized word comprising  
4 one syllable with a short vowel corresponding to said long vowel, when a number of  
5 recognized words does not conform to a previously registered number in said speech  
6 recognition system.

1 10. The speech recognition system of claim 6, further comprising:

2 means for replacing a recognized word which corresponds to a speech element  
3 comprising one syllable with a long vowel with a previously recognized word comprising  
4 one syllable with a short vowel corresponding to said long vowel, when a number of  
5 recognized words does not conform to a previously registered number in said speech  
6 recognition system.

1 11. The speech recognition system of claim 7, further comprising:

2 means for replacing a recognized word corresponding to a speech element  
3 having one syllable with a short vowel with another previously recognized word  
4 corresponding to one syllable with a long vowel, said long vowel corresponding to said  
5 short vowel.

1 12. The speech recognition system of claim 8, further comprising:

2 means for replacing a recognized word corresponding to a speech element  
3 having one syllable with a short vowel with another previously recognized word  
4 corresponding to one syllable with a long vowel, said long vowel corresponding to said  
5 short vowel.

1 13. The speech recognition system of claim 9, further comprising:  
2 means for replacing a recognized word corresponding to a speech element  
3 having one syllable with a short vowel with another previously recognized word  
4 corresponding to one syllable with a long vowel, said long vowel corresponding to said  
5 short vowel.

1 14. The speech recognition system of claim 10, further comprising:  
2 means for replacing a recognized word corresponding to a speech element  
3 having one syllable with a short vowel with another previously recognized word  
4 corresponding to one syllable with a long vowel, said long vowel corresponding to said  
5 short vowel.

6 15. A speech recognition method for use within a dialog of a single person, said  
7 dialog occurring in a certain period of time, said method comprising:  
8

9 receiving a first user spoken utterance and generating a first speech element  
10 array from said first user spoken utterance;

11 searching correspondence information, said correspondence information  
12 associating recognizable words with a plurality of speech element arrays expressing  
13 pronunciation of said recognizable words;

14 generating a first recognized word by comparing said first speech element array  
15 and said plurality of speech element arrays in said correspondence information;

16 lowering a pronunciation prediction probability of one of said plurality of speech  
17 element arrays which differs from said first speech element array, wherein said one of  
said plurality of speech element arrays is made to correspond to said first speech  
element array;

receiving a second user spoken utterance and generating a second speech  
element array from said second user spoken utterance;

searching said correspondence information comprising said lowered  
pronunciation prediction probability; and

1 generating a second recognized word by comparing said second speech  
2 element array and said plurality of speech element arrays in said correspondence  
3 information.

1 16. The speech recognition method of claim 15, wherein said correspondence  
2 information comprises one of said plurality of speech element arrays having a number  
3 corresponding to a measured pronunciation prediction probability corresponding to one  
4 of said recognizable words.

1 17. The speech recognition method of claim 15, wherein said certain period of time  
2 is a period of time for a continued dialog.

1 18. The speech recognition method of claim 15, wherein said certain period of time  
2 is a period of time including a plurality of dialogs in one day.

1 19. The speech recognition method of claim 15, further comprising:  
2 determining one of said recognized words to be erroneous by referring a speaker  
3 to at least part of said one of said recognized words; and  
4 replacing said erroneous word with a different recognizable word, said different  
5 recognizable word capable of being erroneously recognized as said erroneous word.

1 20. The speech recognition method of claim 16, further comprising:  
2 determining one of said recognized words to be erroneous by referring a speaker  
3 to at least part of said one of said recognized words; and  
4 replacing said erroneous word with a different recognizable word, said different  
5 recognizable word capable of being erroneously recognized as said erroneous word.

1 21. The speech recognition method of claim 15, further comprising:

2 replacing one of said recognized words corresponding to a speech element  
3 comprising one syllable with a long vowel with a previously recognized word comprising  
4 one syllable with a short vowel corresponding to said long vowel wherein a number of  
5 said generated words does not conform to a previously registered number in said  
6 speech recognition system.

1 22. The speech recognition method of claim 16, further comprising:

2 replacing one of said recognized words corresponding to a speech element  
3 comprising one syllable with a long vowel with a previously recognized word comprising  
4 one syllable with a short vowel corresponding to said long vowel wherein a number of  
5 said generated words does not conform to a previously registered number in said  
6 speech recognition system.

1 23. The speech recognition method of claim 19, further comprising:

2 replacing one of said recognized words corresponding to a speech element  
3 comprising one syllable with a long vowel with a previously recognized word comprising  
4 one syllable with a short vowel corresponding to said long vowel wherein a number of  
5 said generated words does not conform to a previously registered number in said  
6 speech recognition system.

1 24. The speech recognition method of claim 20, further comprising:

2 replacing one of said recognized words corresponding to a speech element  
3 comprising one syllable with a long vowel with a previously recognized word comprising  
4 one syllable with a short vowel corresponding to said long vowel wherein a number of  
5 said generated words does not conform to a previously registered number in said  
6 speech recognition system.

1 25. The speech recognition method of claim 21, further comprising:

2 replacing a recognized word corresponding to a speech element comprising one  
3 syllable with a short vowel with another previously recognized word corresponding to  
4 one syllable with a long vowel, said long vowel corresponding to said short vowel.

1 26. The speech recognition method of claim 22, further comprising:

2 replacing a recognized word corresponding to a speech element comprising one  
3 syllable with a short vowel with another previously recognized word corresponding to  
4 one syllable with a long vowel, said long vowel corresponding to said short vowel.

1 27. The speech recognition method of claim 23, further comprising:

2 replacing a recognized word corresponding to a speech element comprising one  
3 syllable with a short vowel with another previously recognized word corresponding to  
4 one syllable with a long vowel, said long vowel corresponding to said short vowel.

1 28. The speech recognition method of claim 24, further comprising:

2 replacing a recognized word corresponding to a speech element comprising one  
3 syllable with a short vowel with another previously recognized word corresponding to  
4 one syllable with a long vowel, said long vowel corresponding to said short vowel.

1 29. A machine readable storage, having stored thereon a computer program having  
2 a plurality of code sections executable by a machine for causing the machine to  
3 perform the steps of:

4 receiving a first user spoken utterance and generating a first speech element  
5 array from said first user spoken utterance;

6 searching correspondence information, said correspondence information  
7 comprising a correspondence between recognizable words and a plurality of speech  
8 element arrays expressing pronunciation of said recognizable words;

9 generating a recognized word by comparing said first speech element array and

10 said plurality of speech element arrays in said correspondence information; and  
11 lowering a pronunciation prediction probability of one of said plurality of speech  
12 element arrays which differs from said first speech element array, wherein said one of  
13 said plurality of speech element arrays is made to correspond to said first speech  
14 element array.

1 30. A machine readable storage, having stored thereon a computer program having  
2 a plurality of code sections executable by a machine for causing the machine to  
3 perform the steps of:

4 receiving a first user spoken utterance and generating a first speech element  
5 array from said first user spoken utterance;

6 searching correspondence information, said correspondence information  
7 associating recognizable words with a plurality of speech element arrays expressing  
8 pronunciation of said recognizable words;

9 generating a first recognized word by comparing said first speech element array  
10 and said plurality of speech element arrays in said correspondence information;

11 lowering a pronunciation prediction probability of one of said plurality of speech  
12 element arrays which differs from said first speech element array, wherein said one of  
13 said plurality of speech element arrays is made to correspond to said first speech  
14 element array;

15 receiving a second user spoken utterance and generating a second speech  
16 element array from said second user spoken utterance;

17 searching said correspondence information comprising said lowered  
18 pronunciation prediction probability; and

19 generating a second recognized word by comparing said second speech  
20 element array and said plurality of speech element arrays in said correspondence  
21 information.



1 31. The machine readable storage of claim 30, wherein said correspondence  
2 information comprises one of said plurality of speech element arrays having a number  
3 corresponding to a measured pronunciation prediction probability corresponding to one  
4 of said recognizable words.

1 32. The machine readable storage of claim 30, wherein said certain period of time is  
2 a period of time for a continued dialog.

1 33. The machine readable storage of claim 30, wherein said certain period of time is  
2 a period of time including a plurality of dialogs in one day.

1 34. The machine readable storage of claim 30, further comprising:  
2 determining one of said recognized words to be erroneous by referring a speaker  
3 to at least part of said one of said recognized words; and  
4 replacing said erroneous word with a different recognizable word, said different  
5 recognizable word capable of being erroneously recognized as said erroneous word.

1 35. The machine readable storage of claim 30, further comprising:  
2 replacing one of said recognized words corresponding to a speech element  
3 comprising one syllable with a long vowel with a previously recognized word comprising  
4 one syllable with a short vowel corresponding to said long vowel wherein a number of  
5 said generated words does not conform to a previously registered number in said  
6 speech recognition system.

1 36. The machine readable storage of claim 35, further comprising:  
2 replacing a recognized word corresponding to a speech element comprising one  
3 syllable with a short vowel with another previously recognized word corresponding to  
4 one syllable with a long vowel, said long vowel corresponding to said short vowel.